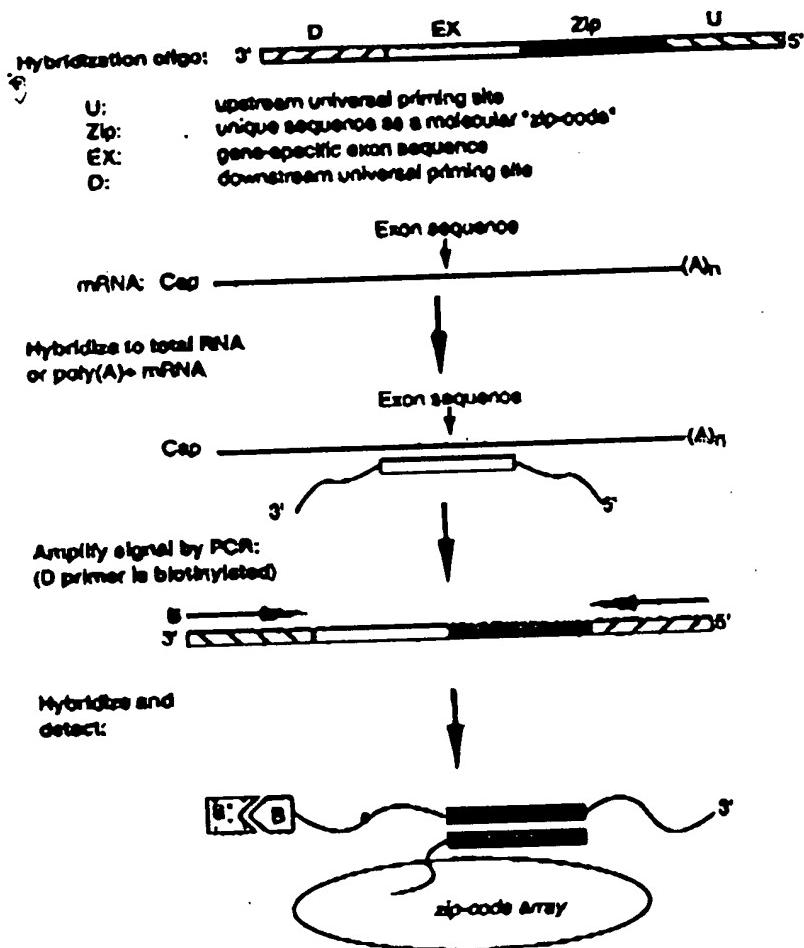


A flow chart for array-based detection of gene expression



Figures 1

A flow chart for array-based detection of RNA alternative splicing

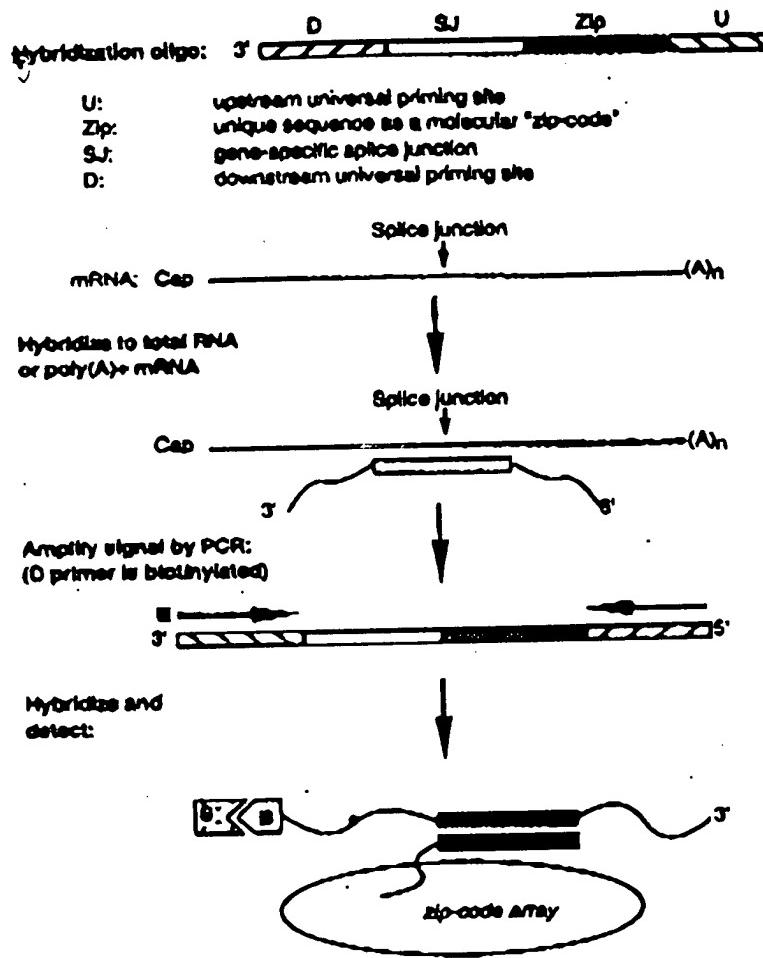


Figure 2

Genome-wide gene expression profiling using oligo-ligation strategy

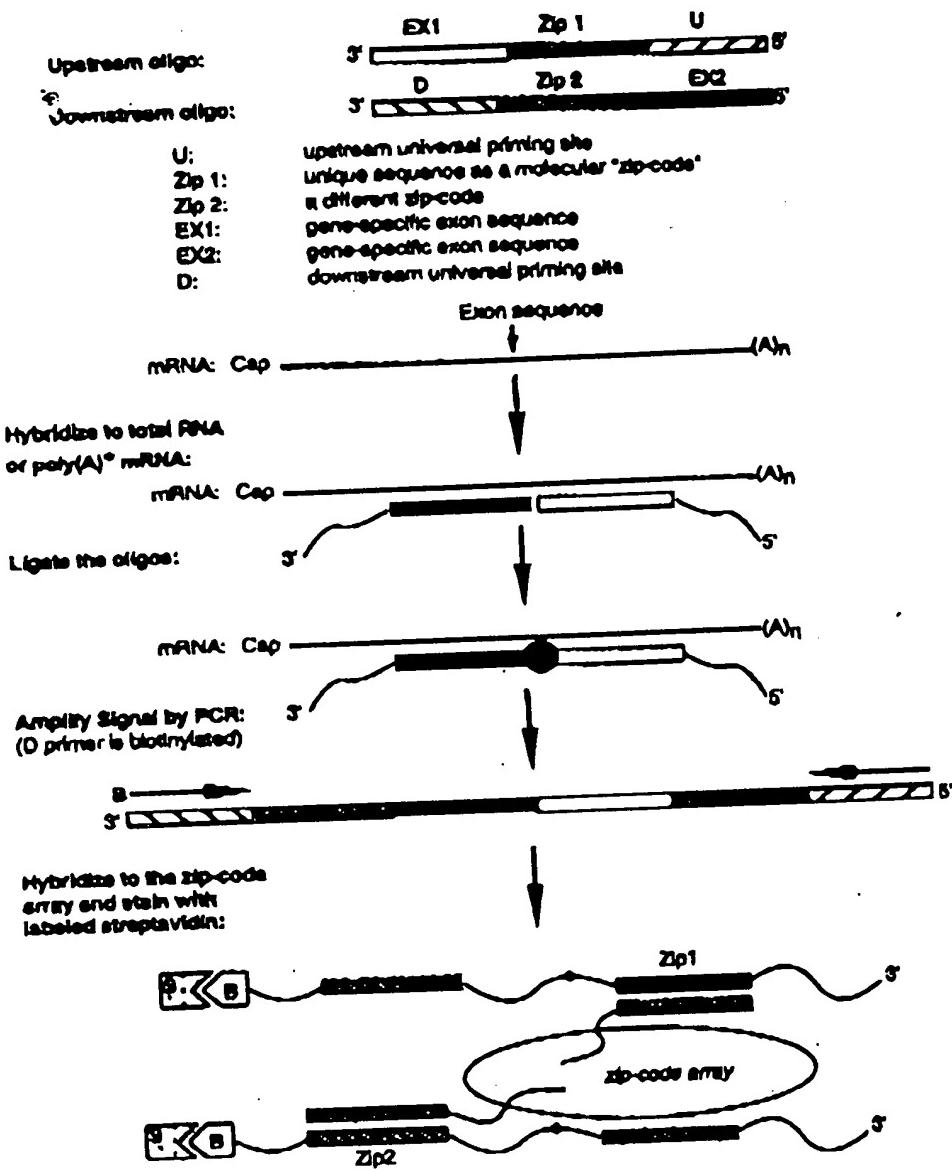


Figure 3

Genome-wide RNA alternative splicing monitoring using oligo-ligation strategy

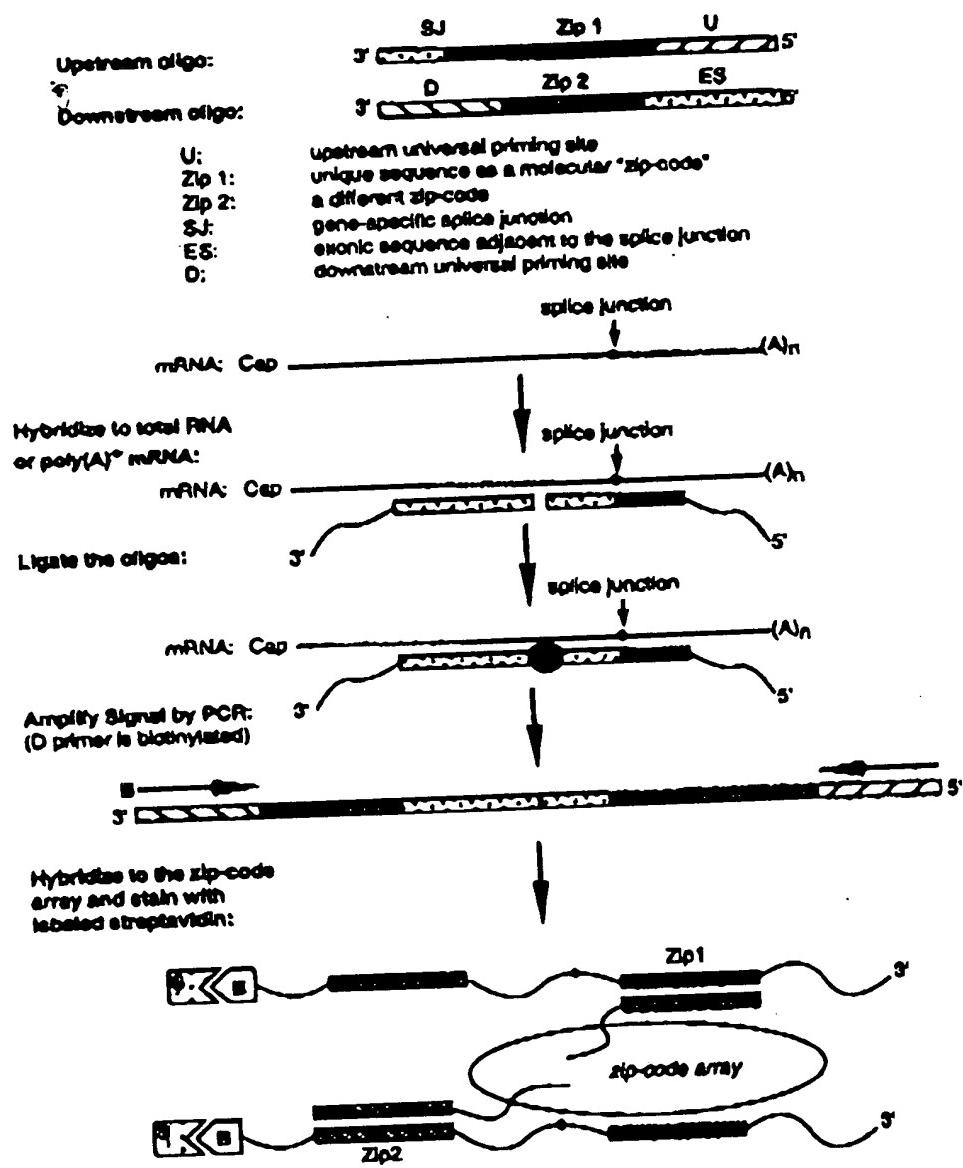


Figure 4

Direct genotyping using a whole-genome oligo-ligation strategy

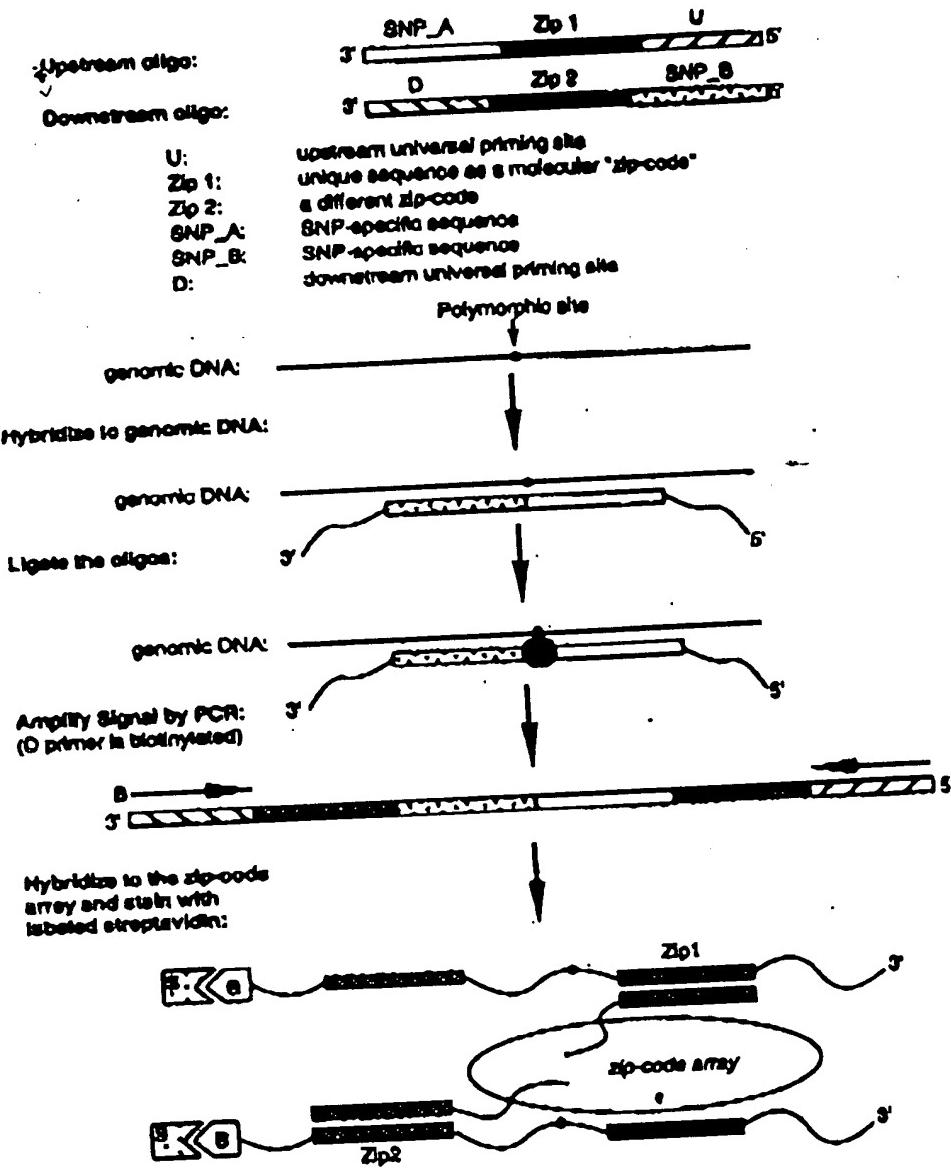


Figure 5

Whole-genome oligo-ligation strategy

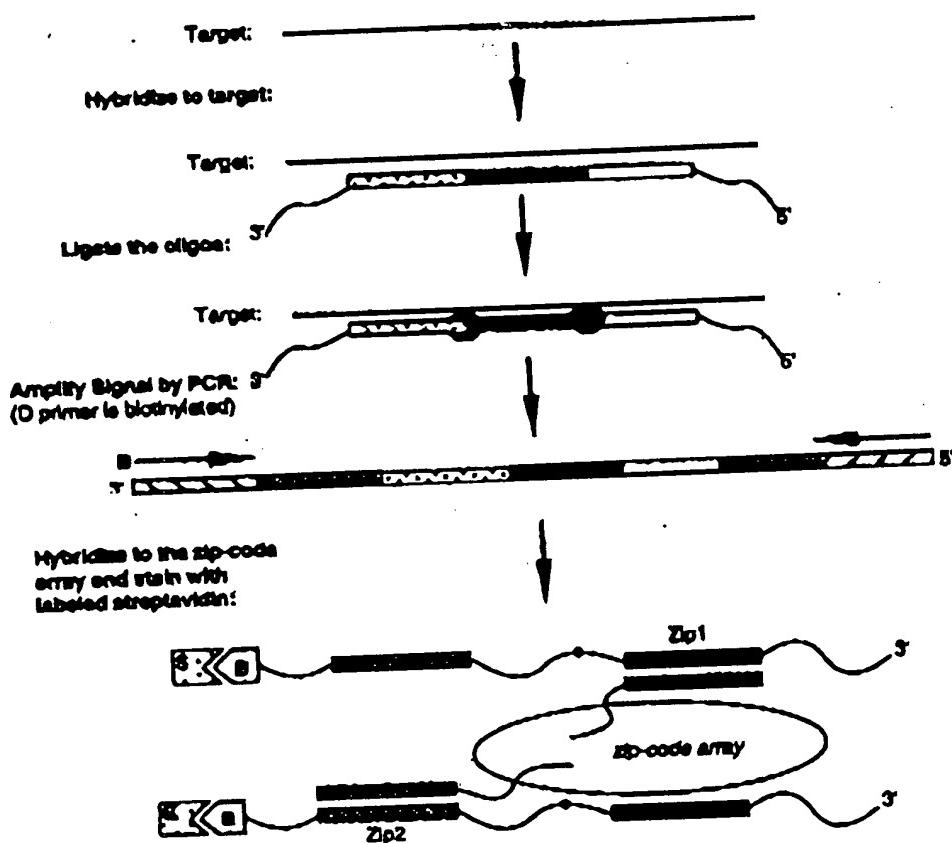
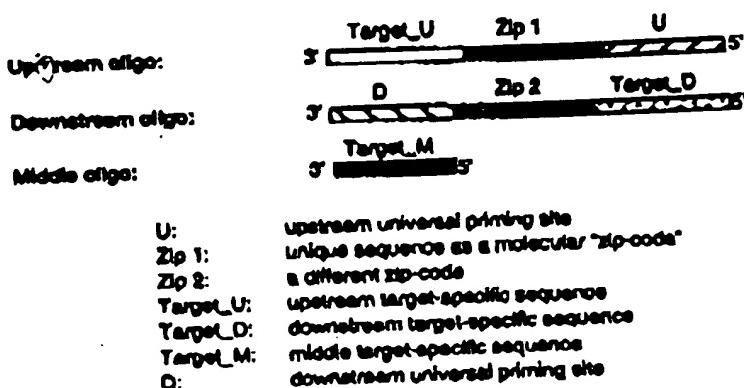
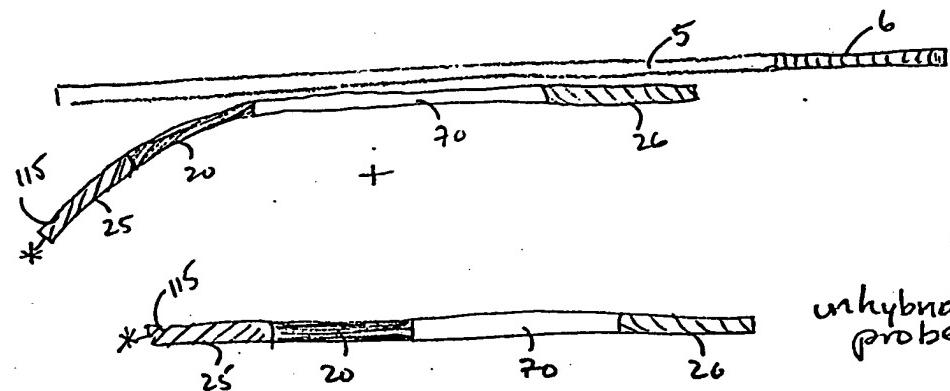
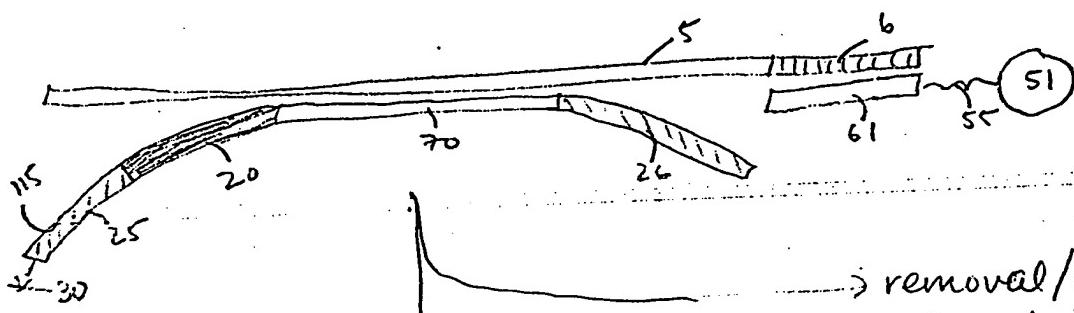


Figure 6



unhybridize
probes

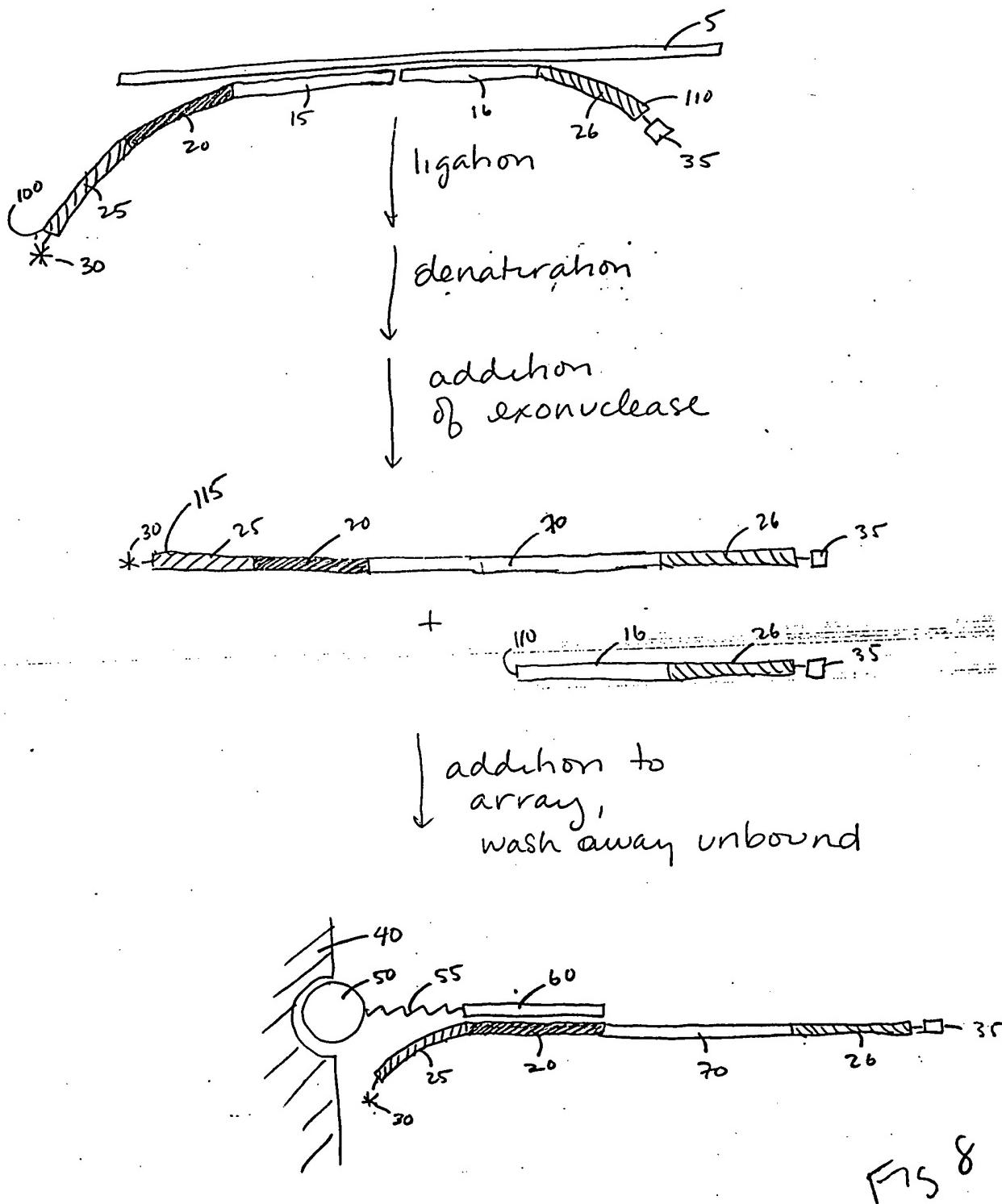


→ removal/wash
of unhybridized
probes

denature

amplify

Fig 7



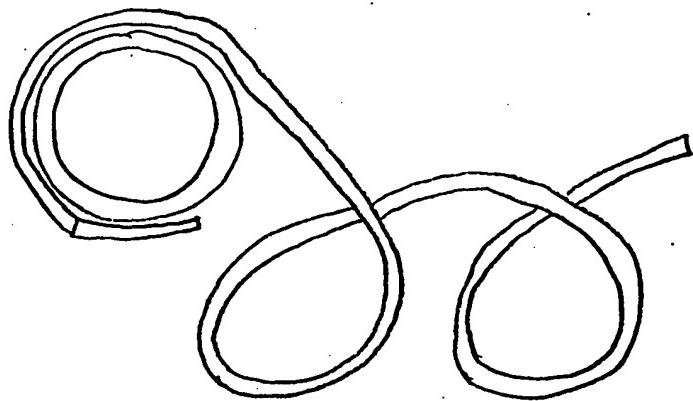
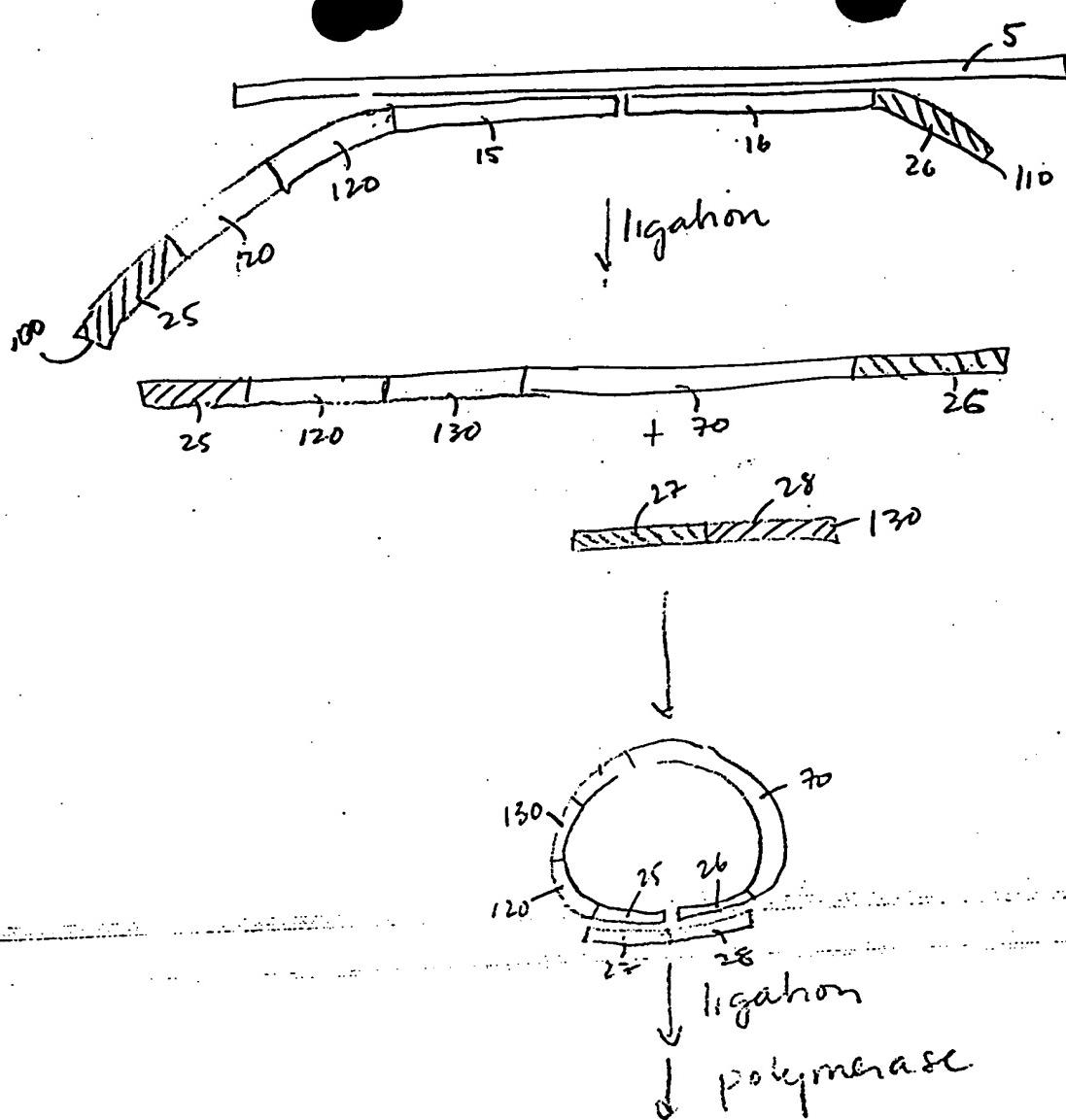
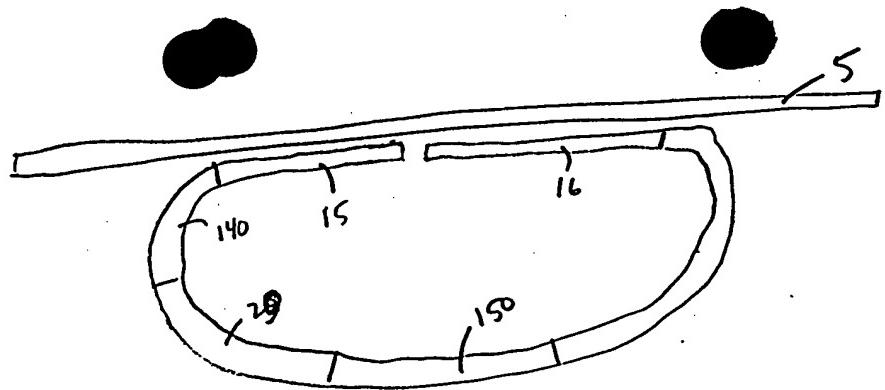
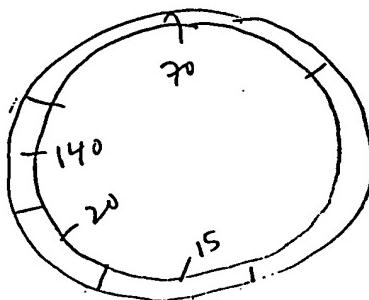


FIG 9



↓
ligation, denaturation



↓
addition of
primer,
extension

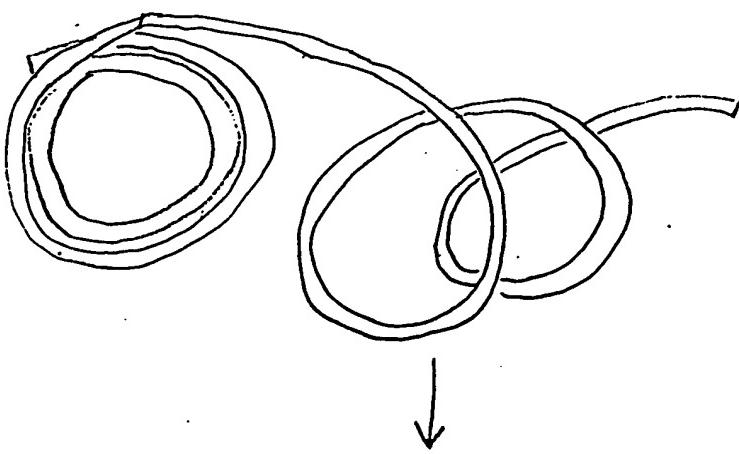
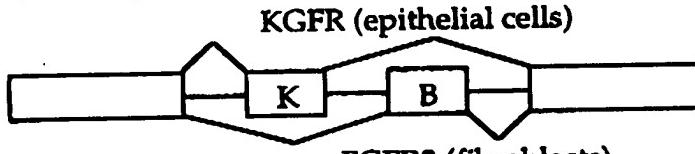


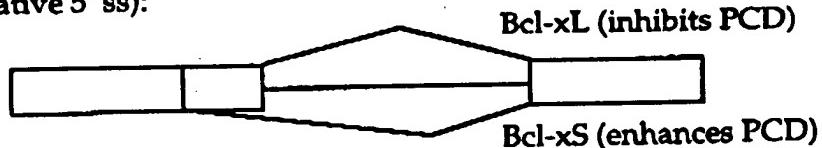
Fig 10

Alternative Splicing Targets Selected for Microarray Analysis

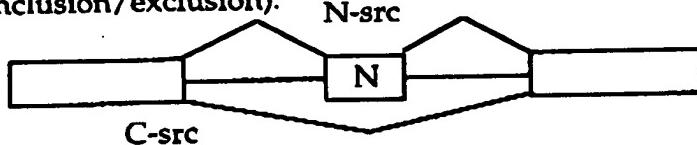
1. GAPDH (constitutive splicing control, signal normalization).
2. FGFR2/KGF (mutually exclusive exons, internal cell type control):



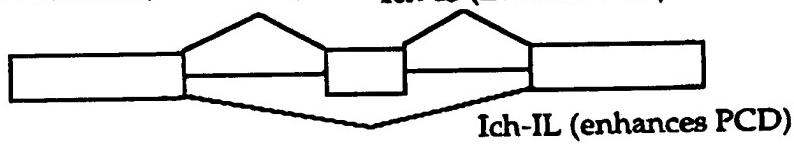
3. Bcl-x (alternative 5' ss):



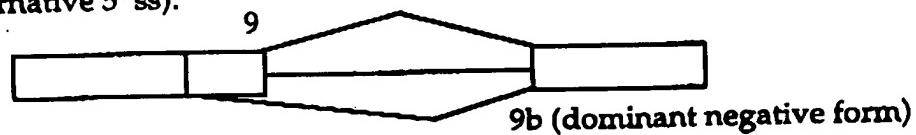
4. c-src (exon inclusion/exclusion):



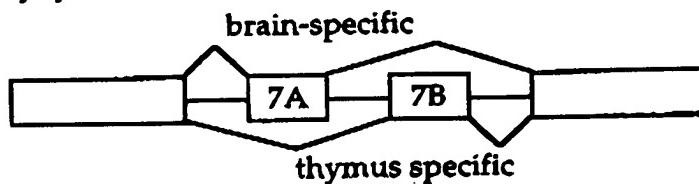
5. CASP2 (exon inclusion/exclusion):



6. CASP9 (alternative 5' ss):



7. Fyn (src family tyrosine kinase, mutually exclusive exons):



8. NOS1 (alternative promoters/alternative 5'ss):

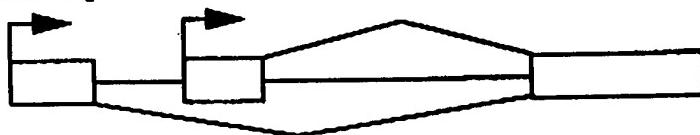


Fig
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